

R454b Refrigerant

SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series
Model Number: MAUSE-H48B-2A/MO1HE-H48B-2A

Air Handler Heat Pump System

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION

ESP(inWG)	0-0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	1601 / 1442 / 1265 / 1089 / 1089
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	53 / 53 / 49.5 / 33.5 / 33.5
Dimension (WxDxH)	inch 21-1/2 x 21-1/2 x 60-1/8
	mm 546 x 546 x 1526
Package (WxDxH)	inch 25 x 31-1/8 x 70-3/4
	mm 635 x 790 x 1800
Net/Gross Weight	lbs 187 / 232
	kg 84.6 / 105.3

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	MTH550UKPC8FU
Refrigerant	R454B
Refrigerant Oil Charge(mL)	1,800
Refrigerant Oil	HAF68D1C
Outdoor Air Flow (Max) (CFM)	3,037
Outdoor Noise Level (dBA)	65
Dimension (WxDxH)	inch 38-9/16 x 16-3/8 x 38-3/8
	mm 980 x 415 x 975
Package (WxDxH)	inch 45-1/16 x 19-11/16 x 42-1/2
	mm 1145 x 500 x 1080
Net/Gross Weight	lbs 233 / 202
	kg 105.5 / 91.4

EFFICIENCY

Cooling		Heating	
SEER2	17.5	HSPF2-4	9.5
EER2	12.0	COP	3.28

PERFORMANCE of Cooling

Cooling (Btu/hr)

Rated Capacity	48,000
Min/Max Capacity	18,000 ~ 52,000
Moisture Removal(L/h)	4.94
Standard Operating Range(*F/*C)	-22~122(-30 ~ 50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating

Heating (Btu/hr)

1. @ 47°F Rated	48,000
2. @ 47°F Min/Max Capacity	13,500 ~ 52,000
3. @ 17°F Rated	34,000
4. @ 5°F Rated: Capacity / COP	48,000 / 2
5. @ 5°F Max: Capacity	48,000
Standard Operating Range(*F/*C)	-22~75 (-30 ~ 24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL

Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/10
Indoor MOP	15.0
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	38.0
Outdoor MOP	40.0
Communication Wiring	AWG 20/2
Compressor RLA	28.0
Outdoor Fan Motor RLA	2.0
Outdoor Fan Motor W	250
Indoor Fan Motor RLA	8.0
Indoor Fan Motor W	1000
System Power Input @ Cooling (W)	4,000 (1,300 ~ 4,870)
System Power Input @ Heating (W)	4,290 (925 ~ 3,880)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

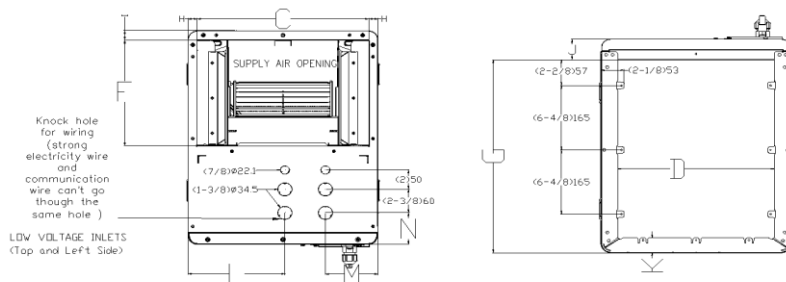
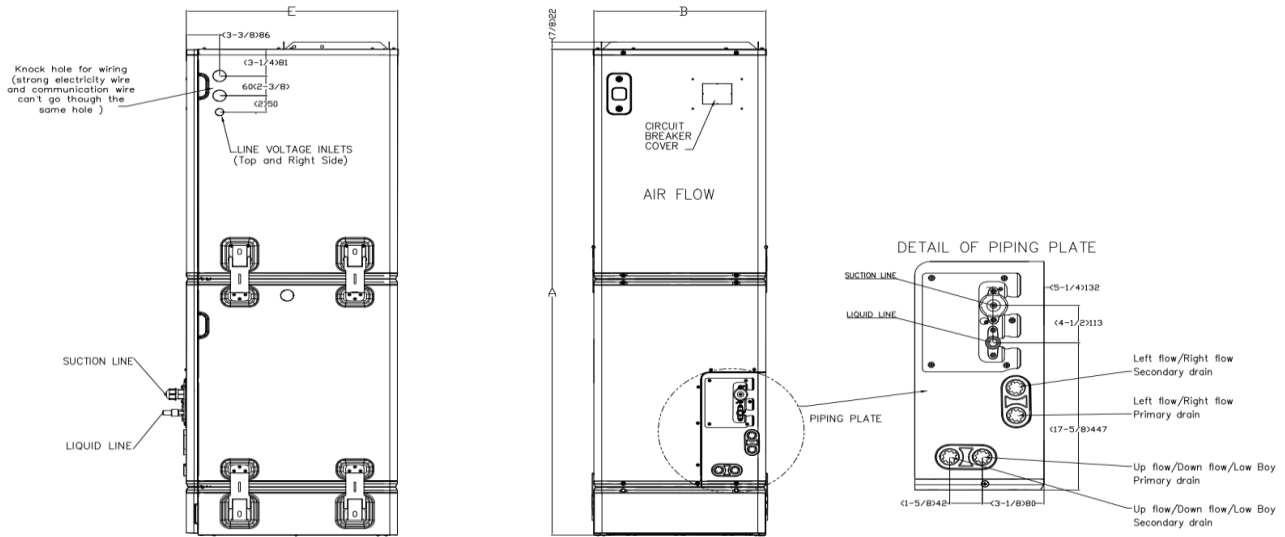
PIPING

Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	3/8" (9.52mm)
Gas Size	3/4" (19mm)
Max. Piping Length(ft/m)	246 (75)
Max. Height Difference(ft/m)	98 (30)
Max. Pre-charged Length(ft/m)	25 (7.5)
Refrigerant Pre-charged Amount(oz/kg)*	134 (3.8)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.7 (65)
Connection Method	Flared

* When MO1HE-H48B-2A is paired with MAUSE-H48B-2A, an additional 0.65kg/22.93oz of refrigerant is required.

Indoor Unit Dimension

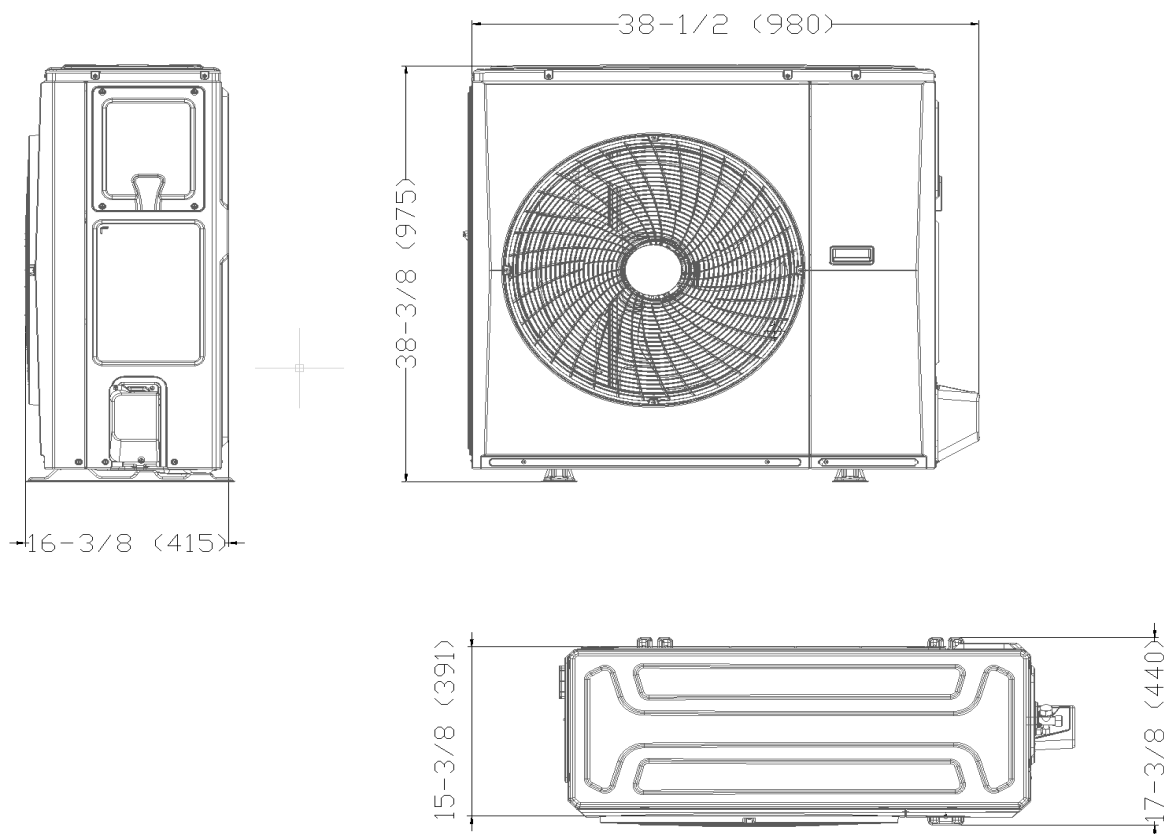
Unit: inch, mm



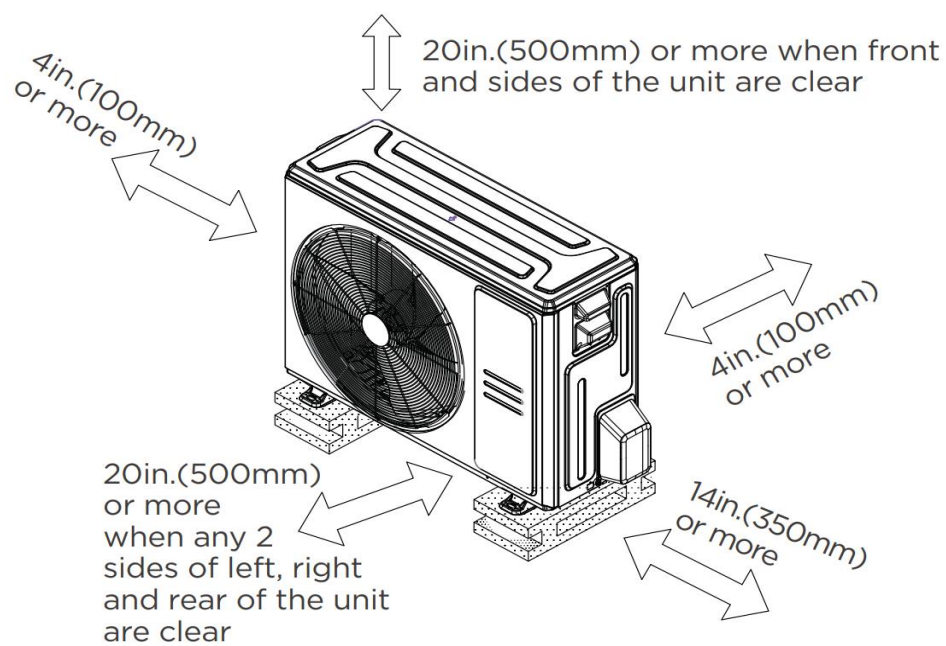
Dimensions		Model(Btu/h)		18K/24K		30K/36K		48K/54K	
				inch	mm	inch	mm	inch	mm
A	Model Height			53-7/8	1368	58-1/8	1476	60-1/8	1526
B	Model Width			14-4/8	368	17-4/8	445	21-4/8	546
C	Supply Air Opening Width			12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width			11-1/8	282	14-4/8	368	18-4/8	470
E	Model Depth			21-1/2	546	21-1/2	546	21-1/2	546
F	Supply Air Opening Depth			10-5/8	271	10-5/8	271	10-5/8	271
G	Return Air Opening Depth			19	484	19	484	19	484
H	Supply Air Opening Clearance			7/8	22	7/8	22	7/8	22
I	Supply Air Opening Clearance			1	24	1	24	1	24
J	Return Air Opening Front Clearance			2-4/8	62	2-4/8	62	2-4/8	62
K	Return Air Opening Back Clearance			1-4/8	37	1-4/8	37	1-4/8	37
L	Top cover knock hole					9	229	10-7/8	275
M	Top cover knock hole			4-1/2	113	4-7/8	124	5-1/8	131
N	Top cover knock hole			2	51	2	51	1-5/8	41

Outdoor Unit Dimension

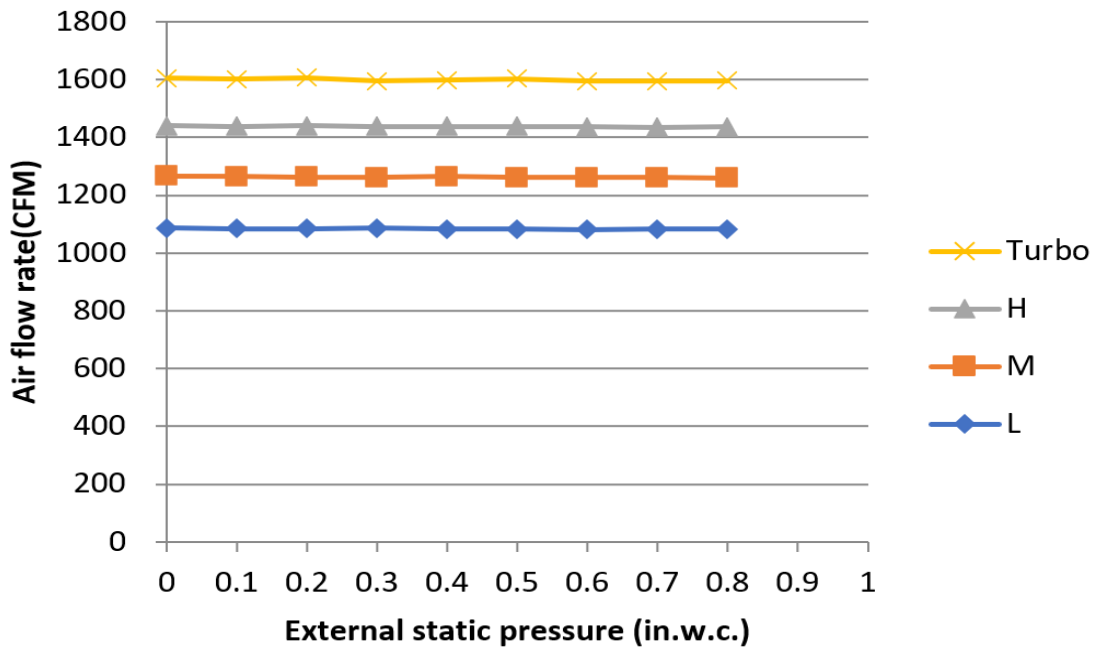
Unit: inch, mm



Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- 115/230V voltage compatible for IDU
- Aluminum Coil
- Constantly Air Flow system up to 1.0 In.W.G
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 19 SEER2, 12.5 EER2, 10.8 HSPF2
- 100% heat output at -13F*
- Chassis heater and crankcase heater equipped as standard

* For MVBDM-36HWFN10-WB3-D pairing with MOX630-36HFN10-M3X, rated cooling capacity/heating capacity at -13F=100%